



13.56 and 60 MHz, 1000 W RF Generator

cito Plus

Comet Plasma Control Technologies has taken the cito RF Generator to the next level in performance and precision. The cito Plus is designed for highest stability into dynamic loads.

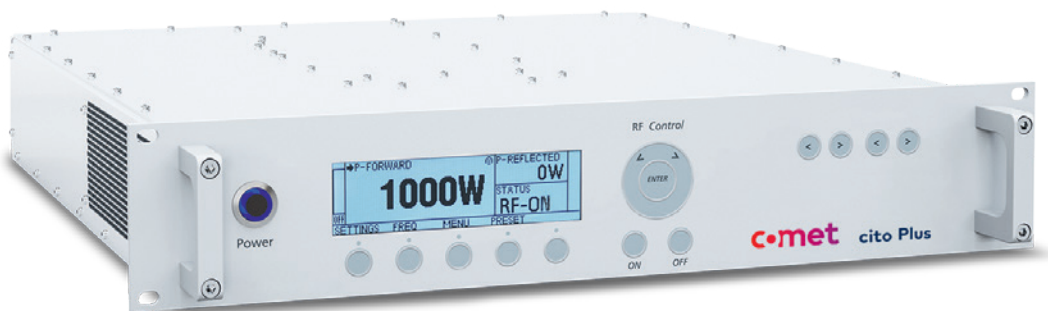
cito Plus offers superior pulsing quality, stability and power measurement accuracy, making it the best choice for plasma deposition and etch applications.

Features

- Symmetrical open loop response
- High accuracy power control
- Pulsing up to 100kHz
- CEX with variable phase delay
- Selectable frequency offset
- Fully SEMI compliant

Benefits

- Predictable plasma behavior
- Easy system integration
- Repeatable wafer results
- Stable with any cable length
- Superior pulse shape into any load
- Worldwide compatibility with most production equipment



comet
pct

Led by experience. Driven by curiosity.

cito Plus 1310 and cito Plus 6010

Frequency	13.56/60 MHz
Frequency stability and accuracy	± 0.005%
Output power	1 W to 1000 W
RF accuracy	± 1.0% of setpoint or ± 0.10% of max. power, whichever is greater
Spurious and harmonics	
Harmonics into 50 Ω	- 45 dBc
Spurious into 50 Ω	- 45 dBc
RF pulsing	
Pulse rate	1 Hz to 100 kHz
Pulse rise/fall time into any load	<300 ns / <400 ns
Interfaces	Analog, RS232, Ethernet, Match control
CEX	Master/slave
Power rating and coolant requirements	
A/C input	187 VAC to 250 VAC, single phase
Rated current	<10 A
AC to RF efficiency	>70%
Operating temperature	+ 5°C to + 35°C
Cooling	Forced air
Configuration	
Front panel	Active or passive
Form factor	2U, full 19" rackmount
Dimensions excl. connectors	441 x 500 x 88 mm (w x d x h)
Weight	<16 kg
RF output connector	N-type
Compliance directives and industrial standards	2014/35/EU Low Voltage directive EN 61010-1 2014/30/EU EMC directive EN 55011 EN 61000-6-2 2011/65/EU RoHS SEMI S2, S8, S14, S22, F47

Switzerland (Head Office)

Comet AG
Flamatt

Germany

YXLON International GmbH
Aachen

United States

Comet Technologies USA, Inc.
San Jose/CA

China

Comet Mechanical Equipment
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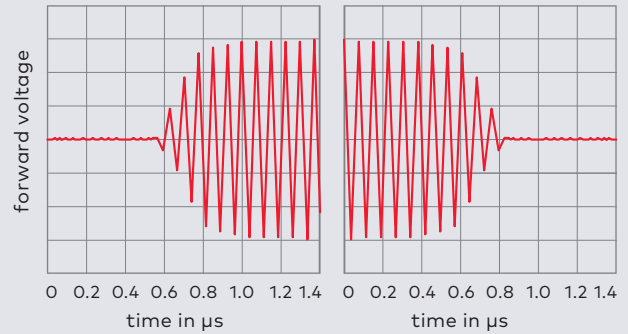
Exceptional Pulsing Performance

Pulse rise time

Ultra short rise times
<300ns into any load
impedance without
overshoots

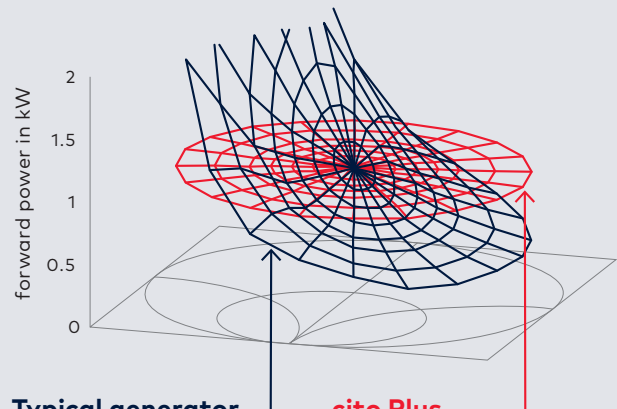
Pulse fall time

Clean falling edge
of the pulse even
under most difficult
conditions



Enhanced Plasma Stability

Symmetrical Open Loop Response



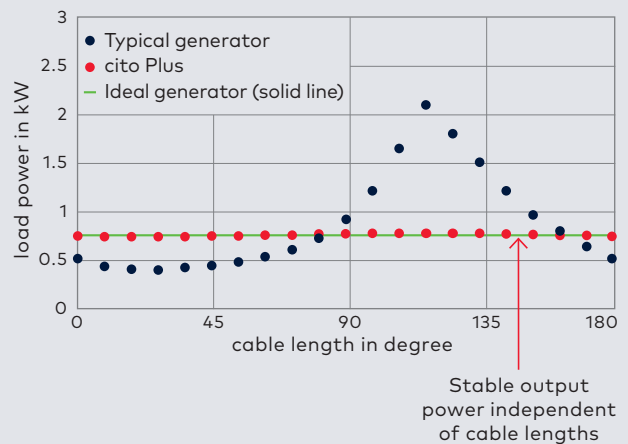
Typical generator

RF forward power
strongly depends on
the plasma load
impedance/condition

cito Plus

RF forward power
is independent
from the plasma
load impedance

Load Power into VSWR 3



Stable output
power independent
of cable lengths